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STATE OF BRUNEI

Annual Report on the Medical Department for the year 1934

BY

W. G. EVANS,
Medical Officer



26

SINGAPORE.

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ANNUAL REPORT ON THE MEDICAL DEPARTMENT, BRUNEI, FOR THE YEAR 1934

By W. G. EVANS—Medical Officer.

I.—GENERAL

1. The State of Brunei comprises an area of about 2,500 square miles with a coast line of about 100 miles and a population of over 30,000 (*see Appendix IV Table 1*).

2. There are two main centres of population, Brunei Town which is the seat of Government, and Kuala Belait, the centre of the activities of the British Malayan Petroleum Company in Brunei.

3. These places are about 70 miles apart and transport between them is by car on road and beach, in fine weather taking about 3 hours and in bad weather becoming at times impossible. Access to other parts of the State from Brunei town is largely by motor-launch but large areas are undeveloped jungle and inaccessible except by perahu (native dug-out). A proportion of the population is found in small clearings in such jungle areas but exact figures are not available.

II.—ADMINISTRATION OF THE MEDICAL DEPARTMENT

(a) STAFF

4. The whole Medical and Health administration of the State is controlled by one officer who is invariably a member of the Malayan Medical Service seconded to Brunei.

5. E. W. MARTINDELL was Medical Officer until May 1st since which date the post has been held by W. G. EVANS.

6. In Kuala Belait the British Malayan Petroleum Company employs a Medical Officer whose services are available to Government by an agreement with the Company.

7. The full establishment of the Department in 1934 is given in Appendix I.

8. In addition to this, a Sanitary Inspector holding the diploma of the Royal Sanitary Institute is on the establishment of the Assistant Resident at Kuala Belait.

9. *Death.*—We record with regret the death on December 7th, of typhoid fever, of ABDUL KHAN BIN NOORSAH, Dresser Grade I (Tutong). He had been in the service of the Government of Brunei for 18 years, 17 of which were spent in the Medical Department.

(b) ORDINANCE AFFECTING PUBLIC HEALTH

10. The Quarantine and Prevention of Diseases Enactment was completed during the year and came into force on January 1st, 1935.

(c) FINANCIAL

11. The revenue collected by the Department was \$1,517.94 compared with \$1,205.76 for 1933.

12. Expenditure was \$37,700.02 compared with \$29,570.58 in 1933.

13. Expenditure by other Departments on Medical and Health works was \$12,835.86 making a total State expenditure on Medical and Health matters of \$50,535.88. This was 9% of the total State expenditure. Details are given in Appendix *II*.

III.—MATERNITY AND CHILD WELFARE

14. A Maternity and Child Welfare service has been maintained with one fully qualified nurse and one locally trained midwife.

15. Four hundred and thirty-six Maternity cases were attended in their own homes with only one death (from severe post partum hæmorrhage).

16. There were only 2 cases of puerperal fever amongst the 436 cases attended.

17. In addition to the Maternity cases, 1,624 other cases were seen in the clinic. Details are given in Appendix *III*.

IV.—PUBLIC HEALTH

(a) GENERAL

18. The scattered nature of the population and the inaccessibility of large parts of the State render Public Health measures difficult if not impossible except in the main centres of population.

19. Ascariasis is so common as to be the rule amongst children. The stools of all school children are examined annually for ova and infected children are treated.

20. Ankylostomiasis is much less common. Figures are given in Appendix *VI*.

21. There was no major epidemic of infectious disease during the year.

22. There was a severe outbreak of Beri-Beri towards the end of the year, due presumably to the poor local rice harvest.

23. The Beri-Beri was particularly severe on Labu Estate. At one time nearly half the labour force was incapacitated. Curative and preventive measures entirely cleared this up before the end of the year.

24. Less than 1% of deaths were certified by Medical Practitioners but since even a number of these were certified from scanty data, the figures for causes of death (given in Appendix *IV* Table 4) are unreliable.

(b) MALARIA

25. Malaria is fairly common throughout the State but is not bad in the main centres where anti-malarial measures are taken.

26. Four hundred and twenty-one Blood films were examined in Brunei Hospital with 37 positive. Laboratory returns are shown in Appendix *V*. Unfortunately the Tutong Laboratory records were lost.

27. *Spleen Rates*.—The highest spleen rate amongst school children was 25.5% at Muara and the lowest nil at Lubok Pulau and Bangar. The rate for the whole State amongst school children was 4.3%. Details are given in Appendix *VI*.

28. Anti-Malarial work has been carried out at Brunei, Kuala Belait, and Muara. The work at Brunei has been largely drainage (both subsoil and surface) and oiling. At Kuala Belait the anti-malarial work is in the hands of the Assistant Resident who acts on the advice of the Oil Company's Medical Officer.

29. The following Anopheline mosquitoes were identified at Brunei (in order of frequency) *A. kochi*, *A. barbirostris*, *A. tessalatus*, *A. sundaicus* and *A. leucosphyrus*. At Kuala Belait they were *A. umbrosus*, *A. tessalatus*, and *A. separatus*.

30. No other mosquito borne diseases were seen except a few cases of dengue.

(c) LEPROSY

31. One advanced case of leprosy has reached a stage of quiescence following treatment and has been settled on a piece of land 10 miles out from Brunei where he is able to live in isolation. He is visited regularly and is able to occupy himself growing vegetables, keeping chickens, etc.

32. One very early case, a well-to-do Chinese was transferred at his own request to Sungei Buloh Leper Settlement, Kuala Lumpur, where he is progressing favourably.

33. One advanced case is receiving treatment in isolation at the Brunei Hospital and is progressing exceptionally well.

(d) MENTAL DISORDERS

34. There is no mental hospital in the State. Selected cases are sent to the Singapore Mental Hospital, others are treated in the Brunei Hospital. No cases were sent to Singapore in 1934 and there remained 8 Brunei lunatics in the Singapore Mental Hospital on December 31st. The cost to the Brunei Government of maintaining lunatics in Singapore in 1934 was \$984.30.

(e) YAWS

35. Yaws is fairly common throughout the State, 137 cases being seen during the year. The dramatic results of its treatment by Western Methods have done much to bring European medicine into favour with the natives of Brunei.

(f) VENEREAL DISEASES

36. Syphilis is very rarely seen, only 2 cases being recorded in 1934.

37. Gonorrhœa is very common but appears to be a very mild disease amongst the native population, responding rapidly to treatment. It is very much more common than the figures in the appendices show.

(g) DYSENTERIES

38. The dysenteries are rare, 16 cases of bacillary dysentery and one case of amœbic were seen during the year.

(h) VITAL STATISTICS

39. The estimated population on December 31st, was 32,971.

40. Births totalled 1,306 giving a birth rate of 39.61 per mille compared with 42.93 for 1933.

41. Deaths totalled 1,237 giving a crude death rate of 37.51 per mille compared with 26.38 for 1933. Details are given in Appendix IV.

42. Table 7 Appendix IV shows that the increase in the number of deaths registered has taken place only in those districts where registration is easy and a registry near at hand, *viz.* Brunei, Tutong and district (Tanjong Maya and Penyatang) Temburong (including Pandaruan), Labu and Muara.

This would suggest that the increased mortality in 1934 is in part only apparent and caused by increased registration. It is certain that even now not all deaths are registered.

43. Table 8 Appendix IV shows the deaths registered by months compared with 1933.

V.—HOSPITAL AND DISPENSARIES

44. The following new buildings were erected during the year—

(a) A block of two wards, each for 9 beds at the Brunei Hospital.

(b) A hospital of 8 beds at Temburong.

45. Thus the Government now maintains:—

(a) A well equipped hospital of about 35 beds at Brunei.

(b) A small hospital of 8 beds at Temburong.

(c) A small hospital of 6 beds at Tutong.

46. The dresser in charge of Tutong Hospital was a Grade I man with many years experience and with his centre at Tutong he travelled the State from Belait to Barakas, penetrating into jungle areas. Owing to the difficult and scattered nature of his work his records are scanty and his lamented death in December unfortunately precludes the issue of a separate report on this work which it was hoped would have been very interesting and informative.

47. The Oil Company at Kuala Belait maintained a very well equipped hospital in charge of a Medical Officer.

48. By agreement with the Company all the services of this hospital and the Company's medical staff are available to Government. The cost to Government in 1934 was \$3,323.

49. Unfortunately there are no radiological facilities whatsoever in the State. It is interesting and astonishing to note how well one can manage without them.

50. The nearest X-ray apparatus is at Miri, a day's journey from Brunei and a few cases were sent there for examination during the year.

51. The admissions to the Government Hospitals in the State are shown in Appendix VII.

52. A list of surgical operations is shown in Appendix VIII. There were no deaths following operation.

53. The Brunei Malay is exceptionally averse from entering hospital as an in-patient and the out-patient departments are the busiest parts of the Medical Department. Details are shown in Appendix IX.

54. Gadong Estate maintained its own dispensary with a qualified dresser.

55. Labu Estate maintained a small hospital and dispensary with a qualified dresser.

56. Other employers of labour made use of the Government hospitals at moderate rates of charges.

VI.—METEOROLOGY

57. There is a definite wet season about November, December, January, February, March with a minor wet season about the middle of the year.

58. The wettest month in Brunei town in 1934 was January with 23.36 inches and the driest May with 5.38 inches.

59. The driest district from which records are available was Kuala Belait with a total of 133.34 inches and the wettest Labu with 248.93. Details are shown in Appendix X.

W. G. EVANS,
Medical Officer.

APPENDIX I

TOTAL STAFF OF THE MEDICAL AND HEALTH DEPARTMENT DURING 1934

- (1) Medical Officer.
- (2) Dresser Grade I.
- (3) Dresser Grade III Senior.
- (4) Dresser Grade III Junior.
- (5) Probationer Dresser.
- (6) Probationer Dresser.
- (7) Apprentice Clerk.
- (8) Health Nurse.
- (9) Probationary Midwife.
- (10) Sanitary Inspector.
- (11) Market Inspector.
- (12) Dispensary Attendant.
- (13) Attendant.
- (14) Attendant.
- (15) Female Attendant.
- (16) Cook.
- (17) Assistant Cook.
- (18) Gardener.
- (19) Dresser Grade I. (Tutong Hospital).
- (20) Attendant „
- (21) Dresser Grade II. (Temburong Hospital).
- (22) Attendant „
- (23) Cook „

Also a number of coolies and toties.

APPENDIX II

MEDICAL DEPARTMENT 1934

| | | <i>Whole State</i> | | <i>Medical Dept.</i> | |
|-------------------|-------|--------------------|----|----------------------|----|
| | | \$ | c. | \$ | c. |
| Total Revenue | .. .. | 645,020 | 79 | 1,517 | 94 |
| Total Expenditure | .. .. | 545,020 | 74 | 37,700 | 02 |

REVENUE 1934

| | \$ | c. |
|--|-------|----|
| Sale of Medicines and Hospital charges | 1,517 | 94 |

EXPENDITURE 1934

| | | |
|---|----------|----|
| Personal Emoluments | 18,333 | 50 |
| Transport (various) | 1,477 | 62 |
| Medicines and Instruments | 3,894 | 59 |
| Hospital Diets | 1,730 | 95 |
| Clothing and Laundry | 560 | 83 |
| Miscellaneous | 198 | 73 |
| Maintenance of Lunatics | 984 | 30 |
| Conservancy | 2,967 | 74 |
| Contribution to Belait Medical Services | 3,323 | 00 |
| Special Equipment | 2,000 | 00 |
| Health Work | 1,932 | 90 |
| Hospital Furniture | 295 | 86 |
| | 37,700 | 02 |
| Other departmental votes .. | 12,835 | 86 |
| Total .. | \$50,535 | 88 |

APPENDIX III

TABLE 1

*Annual return of the Women and Child-Welfare Clinic
for the year 1934*

| <i>Diseases</i> | <i>No. of Cases</i> |
|---------------------------------|---------------------|
| Infected Disease: | |
| (a) Malaria (all forms) | 26 |
| (b) Measles | 5 |
| (c) Dysentery— | |
| (1) Bacillary | 2 |
| (d) Pneumonia (all forms) | 6 |

APPENDIX III—*continued*

| | <i>No. of Cases</i> | | | |
|---|---------------------|----|----|-------|
| Venereal Disease: | | | | |
| (a) Gonorrhœa | .. | .. | .. | 7 |
| (b) Syphilis (all forms) | .. | .. | .. | 1 |
| Helminthic Infections: | | | | |
| (a) Ascariasis | .. | .. | .. | 325 |
| (b) Ankylostomiasis | .. | .. | .. | 2 |
| (c) Other | .. | .. | .. | 18 |
| Respiratory Diseases | .. | .. | .. | 175 |
| Circulatory Disease | .. | .. | .. | 1 |
| Gastro-Intestinal Disease: | | | | |
| (a) All forms | .. | .. | .. | 301 |
| Genito Urinary (non-venereal) | .. | .. | .. | 7 |
| Diseases of Women: | | | | |
| (a) Amenorrhœa | .. | .. | .. | 5 |
| (b) Dysmenorrhœa | .. | .. | .. | 23 |
| (c) Menorrhagia | .. | .. | .. | 5 |
| (d) Abortion | .. | .. | .. | 4 |
| (e) Puerperal Infection (all forms) | .. | .. | .. | 3 |
| (f) Other | .. | .. | .. | 16 |
| Violence (all forms) | .. | .. | .. | 29 |
| Diseases of skins etc., etc. | .. | .. | .. | 663 |
| | | | | <hr/> |
| | | | | 1,624 |
| | | | | <hr/> |

TABLE 2

Record of Maternity Cases for the year 1934

| TABLE OF NATIONALITY | | | | |
|-----------------------|----|----|----------|-------|
| Brunei-Malays | .. | .. | .. | 399 |
| Chinese | .. | .. | .. | 27 |
| Kedayans | .. | .. | .. | 3 |
| Dusuns | .. | .. | .. | 1 |
| Tutongs | .. | .. | .. | 1 |
| Other Malays | .. | .. | .. | 5 |
| | | | | <hr/> |
| | | | Total .. | 436 |
| | | | | <hr/> |

APPENDIX III—continued

TABLE 3

Abnormal Maternity cases attended by the Maternity Department

| | | | | | |
|--|----|----|----|----|----|
| Still Births .. | .. | .. | .. | .. | 17 |
| (1) Full term .. | .. | .. | .. | .. | 9 |
| (2) Premature .. | .. | .. | .. | .. | 8 |
| Premature babies born in Brunei .. | .. | .. | .. | .. | 25 |
| Premature babies born alive .. | .. | .. | .. | .. | 17 |
| Premature babies died .. | .. | .. | .. | .. | 9 |
| Premature babies alive and doing well .. | .. | .. | .. | .. | 8 |
| Twins born in Brunei, pairs .. | .. | .. | .. | .. | 4 |
| Twins alive pairs .. | .. | .. | .. | .. | 3 |
| Twins died pairs .. | .. | .. | .. | .. | 1 |
| Breech (L. S. A.) .. | .. | .. | .. | .. | 2 |
| Ante Partum Hæmorrhage .. | .. | .. | .. | .. | 2 |
| Post Partum Hæmorrhage .. | .. | .. | .. | .. | 6 |
| Post Partum Hæmorrhage death .. | .. | .. | .. | .. | 1 |
| Forceps-case .. | .. | .. | .. | .. | 1 |
| Malformation of Baby (all forms) .. | .. | .. | .. | .. | 6 |

APPENDIX IV

VITAL STATISTICS

TABLE 1

Estimated population with birth and death rates for 1934

| Year | Population | Births | Deaths | Birth-rate per mille | Death-rate per mille |
|------|------------|--------|--------|-------------------------|-------------------------|
| 1932 | 30,595 | 1,306 | 873 | 42·69 | 28·54 |
| 1933 | 32,869 | 1,411 | 867 | 42·93 | 26·38 |
| 1934 | 32,971 | 1,306 | 1,237 | 39·61 | 37·51 |

TABLE 2

Births registered according to nationalities

| Malays | Chinese | Dayaks | Dusuns | Europeans | Eurasians | Indians | Javanese | Kedayans | Muruts | Tutongs | Others | Total |
|--------|---------|--------|--------|-----------|-----------|---------|----------|----------|--------|---------|--------|-------|
| 700 | 138 | 24 | 77 | .. | 2 | 5 | 10 | 187 | 23 | 119 | 21 | 1,306 |

APPENDIX IV—continued

TABLE 3

Deaths grouped according to age, sex, and nationality

| Deaths by Age groups | | | | Sex | Europeans | Eurasians | Chinese | Malays | Indians | Others | Total |
|----------------------|--------|----------|-----|------------|-----------|-----------|-----------|----------|-----------|----------|------------|
| 0 | ... | ... | ... | { M. F. | ... | ... | 3 4 | 34 26 | ... | 18 18 | 55 48 |
| 4 | Weeks | ... | ... | { M. F. | ... | 1 ... | 3 5 | 34 25 | .. ... | 8 19 | 46 49 |
| 3 | Months | ... | ... | { M. F. | ... | ... | 5 7 | 79 48 | .. ... | 23 22 | 107 77 |
| 6 | " | ... | ... | { M. F. | ... | ... | 10 13 | 25 14 | .. ... | 8 12 | 43 39 |
| 1 | Year | ... | ... | { M. F. | ... | ... | .. 3 | 33 46 | .. ... | 26 30 | 59 79 |
| 5 | Years | ... | ... | { M. F. | ... | ... | 2 ... | 10 8 | .. ... | 16 9 | 28 17 |
| 10 | " | ... | ... | { M. F. | ... | ... | 1 ... | 11 7 | .. ... | 6 4 | 18 11 |
| 15 | " | ... | ... | { M. F. | ... | ... | 4 ... | 19 5 | .. ... | 7 8 | 30 13 |
| 20 | " | ... | ... | { M. F. | ... | ... | 2 2 | 13 13 | .. 1 | 6 5 | 21 21 |
| 25 | " | ... | ... | { M. F. | ... | ... | .. 1 | 5 7 | .. ... | 5 10 | 10 18 |
| 30 | " | ... | ... | { M. F. | ... | ... | 2 2 | 9 24 | 1 ... | 15 14 | 27 40 |
| 35 | " | ... | ... | { M. F. | ... | ... | 5 1 | 6 7 | .. ... | 14 13 | 25 21 |
| 40 | " | ... | ... | { M. F. | ... | ... | 3 ... | 16 11 | .. ... | 10 10 | 29 21 |
| 45 | " | ... | ... | { M. F. | ... | ... | 1 ... | 6 3 | .. ... | 8 5 | 15 8 |
| 50 | " | ... | ... | { M. F. | ... | ... | .. ... | 12 18 | .. ... | 9 7 | 21 25 |
| 55 | " | and over | ... | { M. F. | ... | ... | 11 ... | 81 74 | .. ... | 19 30 | 111 104 |
| Total ... { | | | | M. F. | ... | 1 | 90 | 730 | 2 | 414 | 1,237 |

APPENDIX IV—continued

TABLE 4

Deaths from Principal causes, 1934

| Diseases | | | | Male | Female | Total |
|---|----|----|----|------|--------|-------|
| Malaria | .. | .. | .. | 40 | 33 | 73 |
| Enteric fever | .. | .. | .. | 2 | — | 2 |
| Dysentery | .. | .. | .. | 17 | 12 | 29 |
| Influenza | .. | .. | .. | — | — | — |
| Tuberculosis of respiratory system | .. | | | 23 | 22 | 45 |
| Other forms of Tuberculosis | .. | | | — | 2 | 2 |
| Leprosy | .. | .. | .. | — | — | — |
| Syphilis | .. | .. | .. | — | — | — |
| Ankylostomiasis | .. | .. | .. | — | — | — |
| Fever Unspecified | .. | .. | .. | 17 | 21 | 38 |
| Cancer | .. | .. | .. | 1 | — | 1 |
| Beri-Beri | .. | .. | .. | 25 | 15 | 40 |
| Diseases of the Heart | .. | .. | .. | 9 | 4 | 13 |
| Other diseases of Circulatory system | .. | | | 1 | 3 | 4 |
| Bronchitis | .. | .. | .. | 3 | 2 | 5 |
| Pneumonia (all forms) | .. | .. | .. | 16 | 9 | 25 |
| Other diseases of Respiratory system | .. | | | 10 | 8 | 18 |
| Diarrhœa and Enteritis | .. | .. | .. | 78 | 73 | 151 |
| Other diseases of Digestive system | .. | | | 18 | 14 | 32 |
| Convulsions | .. | .. | .. | 87 | 75 | 162 |
| Diseases of Nervous System and Sense Organs | .. | .. | .. | — | — | — |
| Non Venereal diseases of Genito Urinary system | .. | .. | .. | 5 | 7 | 12 |
| Diseases of Pregnancy, Child-birth and Puerperal State | .. | .. | .. | — | 5 | 5 |
| Premature Birth and diseases of early infancy | .. | .. | .. | 57 | 49 | 106 |
| Old age and Senility | .. | .. | .. | 77 | 92 | 169 |
| Violence (all forms) | .. | .. | .. | 9 | 4 | 13 |
| Other Causes (including unknown) | .. | | | 149 | 143 | 292 |
| Total deaths | | | | 644 | 593 | 1,237 |

TABLE 5

Infantile Mortality registered during each Month according to Sex, with rate per thousand Births

| Jan. | | Feb. | | Mar. | | April | | May | | June | | July | | Aug. | | Sept. | | Oct. | | Nov. | | Dec. | | Total | | Total Birth | Rate per 1,000 birth |
|------|----|------|----|------|----|-------|----|-----|----|------|----|------|----|------|----|-------|----|------|----|------|----|------|----|-------|-----|-------------|----------------------|
| M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | |
| 19 | 20 | 15 | 16 | 27 | 18 | 21 | 21 | 16 | 20 | 18 | 15 | 26 | 18 | 31 | 13 | 25 | 24 | 31 | 25 | 12 | 10 | 14 | 9 | 255 | 209 | 1,307 | 355.01 |

APPENDIX IV—continued

TABLE 6

Deaths registered as regards certification

| | |
|--|--------------|
| Certified by Medical Practitioners | 115 |
| Certified by Registering Officers after death .. | 860 |
| Uncertified | 262 |
| Total .. | <u>1,237</u> |

TABLE 7

Showing the Deaths registered by Districts in the years 1933 and 1934

| <i>District</i> | <i>1933</i> | <i>1934</i> |
|-----------------------|-------------|-------------|
| Brunei | 397 | 673 |
| Limau Manis | 33 | 26 |
| Sengkurong | 47 | 41 |
| Tutong | 83 | 99 |
| Tanjong Maya | 54 | 68 |
| Penyatang | 19 | 36 |
| Labi | 13 | 9 |
| Kuala Balai | 7 | 6 |
| Kuala Belait | 83 | 68 |
| Seria | 15 | 9 |
| Pangkalan Siong | 12 | 9 |
| Temburong | 53 | 69 |
| Labu | 16 | 42 |
| Pandaruan | 4 | 14 |
| Muara | 34 | 70 |

TABLE 8

Showing Deaths registered per month in the years 1933 and 1934

| <i>Month</i> | <i>Deaths below the Age of one year</i> | | <i>Total Deaths</i> | |
|-----------------|---|-------------|---------------------|--------------|
| | <i>1933</i> | <i>1934</i> | <i>1933</i> | <i>1934</i> |
| January | 30 | 39 | 60 | 78 |
| February | 24 | 31 | 53 | 79 |
| March | 21 | 45 | 56 | 133 |
| April | 19 | 42 | 59 | 107 |
| May | 19 | 36 | 72 | 104 |
| June | 32 | 33 | 73 | 86 |
| July | 26 | 44 | 78 | 145 |
| August | 33 | 45 | 88 | 123 |
| September | 48 | 49 | 104 | 123 |
| October | 25 | 56 | 70 | 123 |
| November | 22 | 22 | 64 | 68 |
| December | 35 | 22 | 91 | 69 |
| Totals .. | <u>334</u> | <u>464</u> | <u>868</u> | <u>1,237</u> |

APPENDIX V

LABORATORY RETURNS

| | | <i>Brunei</i> | <i>Temburong</i> | <i>Total</i> |
|--|----------|---------------|------------------|--------------|
| (1) Blood: | | | | |
| A. Films— | | | | |
| Malaria: | | | | |
| (a) Benign Tertian | .. | 14 | — | 14 |
| (b) Quartan .. | .. | 6 | — | 6 |
| (c) Sub-Tertian | .. | 17 | 1 | 18 |
| (d) Negative .. | .. | 384 | 35 | 419 |
| | | <hr/> | <hr/> | <hr/> |
| | Total .. | 421 | 36 | 457 |
| | | <hr/> | <hr/> | <hr/> |
| B. Blood Counts .. | .. | 10 | — | 10 |
| (2) Stools: | | | | |
| (1) Entamœba Hystolitica | .. | 2 | — | 2 |
| (2) Ankylostoma .. | .. | 24 | 2 | 26 |
| (3) Ascaris .. | .. | 571 | 29 | 600 |
| (4) Mixed A.L.O. and A.D.O. | .. | 13 | — | 13 |
| (5) Strongyloides .. | .. | 4 | — | 4 |
| (6) T. Trichuira .. | .. | 159 | 4 | 163 |
| (7) Blood and Pus | .. | 24 | 5 | 29 |
| (8) Negative .. | .. | 192 | 19 | 211 |
| (9) Trichomonas Hominis | .. | — | 1 | 1 |
| | | <hr/> | <hr/> | <hr/> |
| | Total .. | 989 | 60 | 1,049 |
| | | <hr/> | <hr/> | <hr/> |
| (3) Sputum: | | | | |
| (a) Tuberculosis Bacilli | .. | 5 | — | 5 |
| (b) Negative .. | .. | 25 | 2 | 27 |
| | | <hr/> | <hr/> | <hr/> |
| | Total .. | 30 | 2 | 32 |
| | | <hr/> | <hr/> | <hr/> |
| (4) Urine: | | | | |
| (a) Pus and Organisms | .. | 10 | — | — |
| (b) Casts (all forms) | .. | 36 | — | — |
| (c) Negative .. | .. | 296 | — | — |
| | | <hr/> | <hr/> | <hr/> |
| | Total .. | 342 | — | — |
| | | <hr/> | <hr/> | <hr/> |
| (5) Bacteriological examination of Smears: | | | | |
| (a) Gonococci .. | .. | 22 | — | 22 |
| (b) Lepra Bacilli | .. | 1 | — | 1 |
| (c) Other Bacteria | .. | 10 | — | 10 |
| (d) Negative .. | .. | 10 | 1 | 11 |
| | | <hr/> | <hr/> | <hr/> |
| | Total .. | 43 | 1 | 44 |
| | | <hr/> | <hr/> | <hr/> |

APPENDIX VI

TABLE SHOWING THE RESULTS OF SPLEEN AND STOOL EXAMINATION
OF SCHOOL CHILDREN

| PLACE | | Number examined | Palpable Spleen | Spleen Rate % | Number of Schools examined | Ascaris | Infection Rate % | Ankylostoma | Infection Rate % |
|--------------|-----|--------------------|--------------------|------------------|----------------------------------|---------|---------------------|-------------|---------------------|
| Brunei | ... | 428 | 8 | 1.8 | 445 | 272 | 62.7 | 2 | .47 |
| Barakas | ... | 42 | 7 | 16.6 | 48 | 36 | 85.7 | ... | ... |
| Gadong | ... | 21 | 1 | 4.7 | 24 | 10 | 47.6 | 1 | 4.7 |
| Kelanas | ... | 21 | 2 | 9.5 | 24 | 13 | 61.9 | ... | ... |
| Sengkurong | ... | 16 | 1 | 6.2 | 24 | 14 | 87.5 | ... | ... |
| Muara | ... | 47 | 12 | 25.5 | 60 | 29 | 61.7 | ... | ... |
| Labu | ... | 63 | 1 | 1.59 | ... | ... | ... | ... | ... |
| Bangar | ... | 28 | ... | ... | 29 | 12 | 42.8 | ... | ... |
| Tutong | ... | 45 | 4 | 8.8 | 85 | 29 | 64.4 | ... | ... |
| Tanjong Maya | ... | 51 | 2 | 3.9 | 52 | 21 | 41.2 | ... | ... |
| Lubok Pulau | ... | 21 | ... | ... | 23 | 14 | 66.6 | 2 | 9.5 |
| Tumpuan Ugas | ... | 23 | 1 | 4.3 | 35 | 20 | 86.9 | ... | .. |
| Belait | ... | 94 | ... | ... | 120 | 32 | 25.0 | ... | ... |

APPENDIX VII

ANNUAL RETURN OF SICK ADMITTED TO GOVERNMENT HOSPITALS,
BRUNEI

| TABLE 1 | | BRUNEI | | | Remained | Admitted | Total | Discharged | Absconded | Died | Remaining | |
|----------------------|-----|--------------------------------|-----|-----|----------|----------|-------|------------|-----------|------|-----------|---|
| Class | | Specific Disease | | | | | | | | | | |
| Infectious Disease | ... | Malaria Fever S.T. | ... | ... | ... | 9 | 9 | 8 | ... | 1 | ... | |
| „ | ... | Malaria Fever B.T. | ... | ... | ... | 10 | 10 | 10 | ... | ... | ... | |
| „ | ... | Malaria Fever Quartan | ... | ... | 1 | 1 | 2 | 2 | ... | ... | ... | |
| „ | ... | Malarial Cachexia | ... | ... | ... | 16 | 16 | 16 | ... | ... | ... | |
| „ | ... | Malaria Fever Unclass. | ... | ... | ... | 2 | 2 | 2 | ... | ... | .. | |
| „ | ... | Malaria Fever Double-Infection | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Typhoid Fever | ... | ... | ... | 4 | 4 | 3 | ... | 1 | ... | |
| „ | ... | Measles | ... | ... | ... | 3 | 3 | 3 | ... | ... | ... | |
| „ | ... | Leprosy | ... | ... | ... | 1 | 1 | ... | ... | ... | 1 | |
| „ | ... | Influenza | ... | ... | ... | 14 | 14 | 14 | ... | ... | ... | |
| „ | .. | Yaws Tertiary | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... | |
| General Disease | ... | Beri Beri | ... | ... | 2 | 20 | 22 | 18 | ... | 3 | 1 | |
| „ | ... | Goitre | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Rheumatic Fever | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... | |
| „ | ... | Tuberculous Adenitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Avitaminosis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Lymphangitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Myalgia | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| Nervous System | ... | Opium Habit | ... | ... | ... | 4 | 4 | 4 | ... | ... | ... | |
| „ | ... | Epidemic Neuritis | ... | ... | .. | 8 | 8 | 8 | ... | ... | ... | |
| „ | ... | Neurasthenia | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Melancholia | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... | |
| Circulatory System | ... | Cerebral Thrombosis | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... | |
| „ | ... | Phlebitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Valvular Disease of Heart | ... | ... | ... | 2 | 2 | 1 | ... | ... | 1 | |
| Respiratory System | | Bronchitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Hæmoptysis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Pneúmonia | ... | ... | ... | 2 | 2 | 1 | ... | 1 | ... | |
| „ | ... | Pleuro-Pneumonia | ... | .. | ... | 1 | 1 | ... | ... | 1 | ... | |
| „ | ... | Lobar Pneumonia | ... | .. | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Broncho Pneumonia | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Pulmonary Tuberculosis | ... | ... | 1 | 4 | 5 | 5 | ... | ... | ... | |
| „ | ... | Pleurisy | ... | ... | 1 | 1 | 2 | 2 | ... | ... | ... | |
| Helminthic Infection | | Ascariasis | ... | ... | ... | 19 | 19 | 19 | ... | ... | ... | |
| „ | ... | Ankylostomiasis | ... | ... | ... | 4 | 4 | 4 | ... | ... | ... | |
| Digestive System | ... | Constipation | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... | |
| „ | ... | Enteritis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Dysentery Amœbic | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Dysentery Bacillary | ... | ... | ... | 2 | 2 | 1 | ... | 1 | ... | |
| „ | ... | Cholecystitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Dyspepsia | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... | |
| „ | ... | Hæmorrhoids | ... | ... | ... | 3 | 3 | 2 | ... | ... | 1 | |
| „ | ... | Peritonitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| „ | ... | Pelvic Peritonitis | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | |
| Carried forward | | | | | ... | 7 | 155 | 162 | 150 | ... | 8 | 4 |

APPENDIX VII—continued

ANNUAL RETURN OF SICK ADMITTED TO GOVERNMENT HOSPITALS,
BRUNEI—continued

| TABLE 1 | | BRUNEI | | Remained | Admitted | Total | Discharged | Absconded | Died | Remaining |
|------------------------------------|---|--------|-----|----------|----------|-------|------------|-----------|------|-----------|
| Class | Specific Disease | | | | | | | | | |
| | <i>Brought forward</i> ... | | | 7 | 155 | 162 | 150 | ... | 8 | 4 |
| Digestive System— <i>Contd.</i> | Gastric Ulcer ... | ... | ... | ... | 2 | 2 | 1 | ... | ... | 1 |
| " | Cirrhosis of Liver ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Gastro Enteritis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Carcinoma of Stomach ... | ... | ... | ... | 1 | 1 | ... | ... | 1 | ... |
| Gen: Urin: System | Nephritis ... | ... | ... | 1 | 2 | 3 | 2 | 1 | ... | ... |
| " | Cystitis ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Pyelo Nephritis ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... |
| " | Peri Nephritis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Peri Urethritis (Gonorrhœæ) ... | ... | ... | ... | 1 | 1 | ... | ... | ... | 1 |
| " | Stone in Bladder ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Hydrocele ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Intra Peritoneal rupture of the bladder ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Prostatitis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Prostatic Abscess ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| Venereal Disease | Gonorrhœa ... | ... | ... | ... | 6 | 6 | 6 | ... | ... | ... |
| " | Gonorrheal Conjunctivitis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| Bones and Joints | Tuberculous Knee joints ... | ... | ... | 1 | 1 | 2 | 1 | ... | ... | 1 |
| " | Osteomyelitis ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Osteo arthritis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| Violence (all forms)... | Wounds ... | ... | ... | ... | 14 | 14 | 14 | ... | ... | ... |
| " | Foreign body in foot ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Perforating injury to eye ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Sprain ... | ... | ... | ... | 3 | 3 | 3 | ... | ... | ... |
| " | Fracture base of skull ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Fracture simple ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Contusion ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Burn ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| Ear, Eye, Nose and Throat | Blepharitis cum Trichiasis ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | .. |
| " | Blepharitis ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Trachoma ... | ... | ... | 1 | 1 | 2 | 2 | ... | ... | ... |
| " | Toxic Amblyopia ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... |
| " | Pterygium ... | ... | ... | ... | 4 | 4 | 4 | ... | ... | ... |
| " | Conjunctivitis ... | ... | ... | ... | 6 | 6 | 6 | ... | ... | ... |
| " | Irido-dialysis cum Hyphemia ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Corneal ulcer ... | ... | ... | ... | 6 | 6 | 6 | ... | ... | ... |
| " | Chronic iritis ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Cataract ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| " | Otitis Media ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| " | Mastoiditis ... | ... | ... | ... | 3 | 3 | 3 | ... | ... | ... |
| " | Tonsillitis ... | ... | ... | ... | 3 | 3 | 2 | 1 | ... | ... |
| | <i>Carried forward</i> ... | | | 13 | 238 | 251 | 233 | 2 | 9 | 7 |

APPENDIX VII—continued

ANNUAL RETURN OF SICK ADMITTED TO GOVERNMENT HOSPITALS,
BRUNEI—continued

| TABLE 1 | BRUNEI | | | | Remained | Admitted | Total | Discharged | Absconded | Died | Remaining |
|-------------------------|--|-----|-----|-----|----------|----------|-------|------------|-----------|------|-----------|
| Class | Specific Disease | | | | | | | | | | |
| | <i>Brought forward</i> ... | | | | 13 | 238 | 251 | 233 | 2 | 9 | 7 |
| Skin & Cell: Tissue ... | Abscess | ... | ... | ... | ... | 11 | 11 | 9 | 1 | ... | 1 |
| „ ... | Boil | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| „ ... | Eczema | ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| „ ... | Dermoid Cyst | ... | ... | ... | ... | 2 | 2 | 2 | ... | ... | ... |
| „ ... | Sebaceous Cyst | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| „ ... | Tinea Imbricata | ... | ... | ... | 1 | 13 | 14 | 14 | ... | ... | ... |
| „ ... | Ulcer | ... | ... | ... | ... | 3 | 3 | 3 | ... | ... | ... |
| „ ... | Urticaria | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| „ ... | Abdominal Sinus | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| Disease of Women ... | Ac. P.P. Hæmorrhage | ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... |
| „ ... | Ovarian Cyst | ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... |
| „ ... | Rt. Tubal Pregnancy cum Tubal abortion | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| Undefined Disease ... | Senility | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... |
| „ ... | Observation | ... | ... | ... | 1 | 5 | 6 | 6 | ... | ... | ... |
| Dental Disease ... | Alveolar Abscess | ... | ... | ... | ... | 4 | 4 | 4 | ... | ... | ... |
| „ ... | Tooth caries | ... | ... | ... | ... | 3 | 3 | 3 | ... | ... | ... |
| Total ... | | | | | 17 | 287 | 304 | 284 | 3 | 9 | 8 |

APPENDIX VII—continued

| TABLE 2 | | | | TUTONG | | | | | | | | | | | | | | | |
|---------------------------|-----|-----|-----|-------------------------------------|-----|----------|----------|-------|------------|-------------|-----------|------|-----------|--|--|--|--|--|--|
| Class | | | | Specific Disease | | Remained | Admitted | Total | Discharged | Transferred | Absconded | Died | Remaining | | | | | | |
| Infectious Disease | ... | ... | ... | Malaria Fever (Unclass) | ... | ... | 3 | 3 | 3 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Malaria Fever Quartan | ... | ... | 6 | 6 | 6 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Malaria Fever B. T. | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Malarial Cachexia | ... | ... | 4 | 4 | 4 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Influenza | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Measles | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Yaws | ... | ... | 10 | 10 | 10 | ... | ... | ... | ... | | | | | | |
| General Disease | ... | ... | ... | Beri-Beri | ... | ... | 3 | 3 | 3 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Rheumatism | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Lumbago | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Goitre | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| Nervous System | ... | ... | ... | Neuralgia | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Neuritis | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| Ear, Eye, Nose and Throat | ... | ... | ... | Otitis Externa | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Blepharitis | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Trachoma | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| Respiratory System | ... | ... | ... | Bronchitis | ... | ... | 3 | 3 | 3 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Asthma | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | P. Tuberculosis | ... | ... | 2 | 2 | 1 | 1 | ... | ... | ... | | | | | | |
| Digestive System | ... | ... | ... | Dyspepsia | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Ascariasis | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Ankylostomiasis and Chronic Malaria | ... | ... | 1 | 1 | ... | 1 | ... | ... | ... | | | | | | |
| Bones and Joints | ... | ... | ... | Septic Joints | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Fracture | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Arthritis | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Osteo Arthritis | ... | ... | 1 | 1 | ... | 1 | ... | ... | ... | | | | | | |
| Gent. Urin. System | ... | ... | ... | Perinephritis | ... | ... | 1 | 1 | ... | 1 | ... | ... | ... | | | | | | |
| Skin and Cell. Tiss. | ... | ... | ... | Ulcer | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Tinea Imbricata | ... | ... | 7 | 7 | 7 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Abscess | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Dermoid Cyst | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| External Causes | ... | ... | ... | Wound | ... | ... | 8 | 8 | 8 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Injury to eye | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Stung by fish | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Sprain | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| | | | | | | | 78 | 78 | 74 | 4 | ... | ... | ... | | | | | | |
| TABLE 3 | | | | TEMBURONG | | | | | | | | | | | | | | | |
| General Disease | ... | ... | ... | Beri-Beri | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| Respiratory System | ... | ... | ... | Asthma | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| " | ... | ... | ... | Pleurisy | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| Genito. Urin. System | ... | ... | ... | Nephritis | ... | ... | 2 | 2 | 2 | ... | ... | ... | ... | | | | | | |
| Skin and Cell Tissue | ... | ... | ... | Cyst | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | | | | | | |
| | | | | | | ... | 8 | 8 | 8 | ... | ... | ... | ... | | | | | | |

APPENDIX VIII

RETURN OF OPERATIONS PERFORMED DURING 1934

| | | | <i>Brunei</i> | <i>Temburong</i> |
|--|----|----|---------------|------------------|
| A.—GENERAL: | | | | |
| Suture of wounds | .. | .. | 36 | 8 |
| Removal of Cysts, etc. | .. | .. | 11 | — |
| Incision of Suppuration | .. | .. | 30 | 8 |
| Removal of Foreign bodies | .. | .. | 8 | 1 |
| Appendicectomy | .. | .. | 1 | — |
| For Hæmorrhoids | .. | .. | 1 | — |
| For Hydrocele | .. | .. | 1 | — |
| Peritoneotomy | .. | .. | 1 | — |
| Intra-Peritoneal rupture of the bladder | | | 1 | — |
| Chronic Osteomyelitis | .. | .. | 2 | — |
| Empyema | .. | .. | 1 | — |
| Circumcision | .. | .. | 1 | — |
| Removal of Fibroma | .. | .. | 1 | — |
| Peri-Arterial Sympathectomy | .. | .. | 1 | — |
| Cystotomy for stone | .. | .. | 1 | — |
| Thyroidectomy | .. | .. | 1 | — |
| Abdominal Sinus (curettage) | .. | .. | 1 | — |
| Glands of neck | .. | .. | 1 | — |
| Cystoscopy | .. | .. | 7 | — |
| Sigmoidoscopy | .. | .. | 6 | — |
| B.—SPECIAL: | | | | |
| (1) <i>Eye</i> — | | | | |
| For Blepharitis | .. | .. | 1 | — |
| For Pterygium | .. | .. | 5 | — |
| Removal of Foreign bodies | .. | .. | 1 | — |
| Extraction of cataract | .. | .. | 1 | — |
| Iridectomy | .. | .. | 2 | — |
| (2) <i>Ear, Nose and Throat</i> — | | | | |
| Radical Mastoid | .. | .. | 1 | — |
| Incision of mastoid abscess (mastoiditis) | .. | .. | 2 | — |
| Tonsillectomy | .. | .. | 3 | — |
| (3) <i>Gynaecological</i> — | | | | |
| Uterine Curettage | .. | .. | 1 | — |
| Tubal pregnancy and Tubal abortion | | | 1 | — |
| (4) <i>Dental</i> — | | | | |
| Extractions | .. | .. | 142 | — |
| Pyorrhæal abscess | .. | .. | 2 | — |
| Total | | | 275 | 17 |

APPENDIX IX

ANNUAL RETURN OF OUT-PATIENTS BRUNEI GOVERNMENT HOSPITALS

| <i>Disease</i> | | <i>Brunei</i> | <i>Tutong</i> | <i>Temburong</i> | <i>Total</i> |
|-------------------------------|-------|---------------|---------------|------------------|--------------|
| Infectious Disease: | | | | | |
| (a) Malaria (all forms) | .. | 313 | 358 | 141 | 812 |
| (b) Measles | .. .. | 16 | 127 | 36 | 179 |
| (c) Yaws | .. .. | 32 | 52 | 42 | 126 |
| (d) Leprosy | .. .. | 2 | — | — | 2 |
| (e) Dengue | .. .. | 1 | — | — | 1 |
| (f) Dysentery— | | | | | |
| (1) Bacillary | .. | 26 | 5 | 9 | 40 |
| (g) Pneumonia (all forms) | | 9 | 5 | 2 | 16 |
| (h) Tuberculosis— | | | | | |
| (1) Pulmonary | .. | 31 | 7 | 2 | 40 |
| (2) Other | .. | 3 | — | 1 | 4 |
| Venereal Disease: | | | | | |
| (a) Gonorrhœa (all forms) | | 17 | — | — | 17 |
| (b) Syphilis (all forms) | .. | 2 | — | — | 2 |
| Helminthic Infection: | | | | | |
| (a) Ascariasis | .. .. | 534 | 364 | 90 | 988 |
| (b) Ankylostomiasis | .. | 2 | 1 | 2 | 5 |
| Respiratory Diseases | .. | 735 | 394 | 170 | 1,299 |
| Circulatory Diseases: | | | | | |
| (a) Valvular Disease of Heart | | 1 | — | — | 1 |
| (b) Other | .. .. | 5 | — | 1 | 6 |
| Gastro-Intestinal Disease: | | | | | |
| (a) Duodenal ulcer | .. | 15 | — | — | 15 |
| (b) Other | .. .. | 861 | 504 | 217 | 1,582 |
| Genito-Urinary (non-venereal) | | 38 | 16 | 14 | 68 |
| Diseases of Women: | | | | | |
| (a) Amenorrhœa | .. | 1 | 2 | — | 3 |
| (b) Dysmenorrhœa | .. | 10 | 4 | 1 | 15 |
| (c) Abortion | .. .. | 3 | — | 2 | 5 |
| (d) Other | .. .. | 11 | 4 | 8 | 23 |
| Violence (all forms) | .. | 809 | 351 | 109 | 1,269 |
| Diseases of Skin, etc., etc. | .. | 2,334 | 1,340 | 915 | 4,589 |
| | | <hr/> | <hr/> | <hr/> | <hr/> |
| Total | .. | 5,811 | 3,534 | 1,762 | 11,107 |

APPENDIX X

METEOROLOGY

Table 1 mean room temperature at Brunei and Temburong Hospitals

| Month | | | | BRUNEI | | | TEMBURONG | | |
|-----------|-----|-----|-----|---------|---------|-------|------------|---------|-------|
| | | | | Maximum | Minimum | Range | Maximum | Minimum | Range |
| January | ... | ... | ... | 86.00 | 75.74 | 10.26 | No records | | |
| February | ... | ... | ... | 86.29 | 75.82 | 10.47 | | | |
| March | ... | ... | ... | 83.93 | 75.90 | 8.03 | | | |
| April | ... | ... | ... | 85.06 | 76.50 | 8.56 | | | |
| May | ... | ... | ... | 86.61 | 76.74 | 9.87 | 84.93 | 73.13 | 11.80 |
| June | ... | ... | ... | 88.90 | 76.60 | 12.30 | | | |
| July | ... | ... | ... | 86.03 | 76.00 | 10.03 | | | |
| August | ... | ... | ... | 85.26 | 76.26 | 9.00 | | | |
| September | ... | ... | ... | 86.01 | 76.01 | 10.00 | | | |
| October | ... | ... | ... | 84.81 | 76.01 | 8.80 | | | |
| November | ... | ... | ... | 84.43 | 76.13 | 8.30 | | | |
| December | ... | ... | ... | 83.00 | 75.68 | 7.32 | | | |
| Mean | | | | 85.53 | 76.12 | 9.41 | 86.09 | 74.57 | 6.72 |

Table 2 monthly rain-fall at nine Stations

| Month | | | | BRUNEI DISTRICT | | | | TEMBURONG DISTRICT | | | Belait B.M.P. | Belait Hos. |
|-----------|-----|-----|-----|------------------------|--------|--------|----------------|--------------------|--------|-----------|---------------|-------------|
| | | | | Govt. Hos. Brunei town | Subok | Gadong | Kumbang Pasang | Labu | Biang | Batu Apoi | | |
| January | ... | ... | ... | 23.36 | 29.30 | 21.17 | 24.14 | 50.22 | 29.07 | 22.90 | 16.87 | 16.58 |
| February | ... | ... | ... | 16.34 | 16.04 | 18.16 | 17.80 | 18.10 | 16.51 | 22.08 | 14.35 | 14.35 |
| March | ... | ... | ... | 16.95 | 13.22 | 23.17 | 26.82 | 24.12 | 14.05 | 20.09 | 14.04 | 14.03 |
| April | ... | ... | ... | 7.23 | 6.26 | 16.00 | 10.76 | 23.81 | 17.49 | 14.05 | 5.21 | 5.53 |
| May | ... | ... | ... | 5.38 | 4.62 | 6.22 | 15.90 | 11.32 | 7.24 | 4.36 | 4.14 | 4.45 |
| June | ... | ... | ... | 8.58 | 9.84 | 10.68 | 14.51 | 22.98 | 19.94 | 19.74 | 14.99 | 15.73 |
| July | ... | ... | ... | 7.42 | 7.45 | 6.02 | 8.00 | 14.84 | 10.91 | 5.50 | 7.65 | 7.66 |
| August | ... | ... | ... | 10.08 | 11.55 | 5.62 | 9.47 | 11.59 | 16.27 | 2.25 | 5.82 | 5.86 |
| September | ... | ... | ... | 9.49 | 10.78 | 8.13 | 9.72 | 13.97 | 8.50 | 1.96 | 7.29 | 7.27 |
| October | ... | ... | ... | 14.68 | 16.19 | 17.60 | 19.41 | 19.60 | 25.96 | 8.59 | 14.12 | 14.47 |
| November | ... | ... | ... | 18.01 | 20.47 | 21.93 | 25.79 | 22.95 | 52.96 | 16.72 | 12.69 | 12.74 |
| December | ... | ... | ... | 13.70 | 16.59 | 21.16 | 19.85 | 15.43 | 16.69 | 9.98 | 16.17 | 15.73 |
| Total | | | | 151.72 | 162.31 | 175.86 | 192.17 | 248.93 | 235.20 | 148.33 | 133.34 | 134.40 |



SKETCH MAP OF THE STATE OF BRUNEI

Scale 12 Miles to 1 Inch

Miles 12 6 0 12 24 Miles

REFERENCE

| | |
|--|---|
| Metalled Road..... | European Rubber Estates..... |
| Earth "..... | European Rubber Estates (area under Rubber)..... |
| Road Along Sand Beach..... | Native Holdings (Miscellaneous Cultivation)..... |
| State Boundary (assumed)..... | Oil Mining Lease (Brit. Mal. Pet. Co. Ltd.)..... |
| District Boundary..... | Oil Prospecting Licence (Brit. Mal. Pet. Co. Ltd.)..... |
| District Name..... | Police..... |
| Residency..... | Wireless Stations..... |
| Govt. Offices, Palace of H.H. the Sultan, G.O. is..... | Customs..... |
| Golf Course, Village Schools..... | |





